

by means of the automated data acquisition and handling system, the average hourly flow rate (or NO_x emission rate) recorded for the affected unit by a certified flow monitor (or a certified NO_x continuous emission monitoring system). The flow rate (or NO_x emission rate) shall be calculated from the corresponding load range as determined using the procedure in appendix C of this part.

(2) Whenever no prior quality-assured flow or NO_x emission rate data exist for the corresponding load range, the owner or operator shall substitute the average hourly flow rate or the average hourly NO_x emission rate at the next higher level load range for which quality-assured data is available, for each hour of missing data.

(3) Whenever no prior quality-assured flow or NO_x emission rate data exist for the corresponding load range, or any higher load range, the owner or operator shall calculate and substitute the maximum potential flow rate or shall substitute the maximum potential NO_x emission rate, as specified in § 72.2 of this chapter and section 2.1 of

appendix A, for each hour of missing data.

[58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26529, May 17, 1995]

§ 75.32 Determination of monitor data availability for standard missing data procedures.

(a) Following initial certification, upon completion of the first 720 quality-assured monitor operating hours of the SO₂ or CO₂ (or O₂) pollutant concentration monitor or the first 2,160 quality-assured monitor operating hours of the flow monitor or NO_x continuous emission monitoring system, the owner or operator shall calculate and record, by means of the automated data acquisition and handling system, the percent monitor data availability for the SO₂ and CO₂ (or O₂) pollutant concentration monitor, the flow monitor, the NO_x continuous emission monitoring system as follows:

(1) Prior to completion of 8,760 unit operating hours following initial certification, the owner or operator shall, for the purpose of applying the standard missing data procedures of § 75.33, use equation 8 to calculate, hourly, percent monitor data availability.

$$\text{Percent monitor data availability} = \frac{\text{Total unit operating hours for which quality-assured data were recorded since certification}}{\text{Total unit operating hours since certification}} \times 100 \quad (\text{Eq. 8})$$

(2) Upon completion of 8,760 unit operating hours following initial certification (or, for a unit with less than 8,760 unit operating hours three years (26,280 clock hours) after initial certification, upon completion of three years (26,280 clock hours) following initial

certification) and thereafter, the owner or operator shall, for the purpose of applying the standard missing data procedures of § 75.33, use equation 9 to calculate, hourly, percent monitor data availability.

$$\text{Percent monitor data availability} = \frac{\text{Total unit operating hours for which quality-assured data were recorded during previous 8,760 unit operating hours}}{8,760} \times 100 \quad (\text{Eq. 9})$$

(3) The owner or operator shall include all unit operating hours, and all monitor operating hours for which quality-assured data were recorded by a certified primary monitor; a certified redundant or non-redundant backup monitor or a reference method for that unit; or by an approved alternative monitoring system under subpart E of this part when calculating percent monitor data availability using equation 8 or 9. No hours from more than three years (26,280 clock hours) earlier shall be used in equation 9. For a unit that has accumulated less than 8,760 unit operating hours in the previous three years (26,280 clock hours), replace the words "during previous 8,760 unit operating hours" in equation 9 with "in the previous three years" and replace "8,760" with "total unit operating hours in the previous three years." The owner or operator of a unit with an SO₂ monitoring system shall, when SO₂ emissions are determined in accordance with § 75.11(e)(1) or (e)(2), exclude hours in which a unit combusts only natural gas (or gaseous fuel with a sulfur content no greater than natural gas) from calculations of percent monitor data availability for SO₂ pollutant concentration monitors, as provided in § 75.30(d).

(b) The monitor data availability need not be calculated during the missing data period. The owner or operator shall record the percent monitor data availability for the last hour of each missing data period as the monitor availability used to implement the missing data substitution procedures.

[58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26529, 26567, May 17, 1995; 61 FR 59160, Nov. 20, 1996]

§ 75.33 Standard missing data procedures.

(a) Following initial certification and upon completion of the first 720 quality-assured monitor operating hours of the SO₂ pollutant concentration monitor or the first 2,160 quality-assured monitor operating hours of the flow monitor or NO_x continuous emission monitoring system, the owner or operator shall provide substitute data required under this subpart according to the procedures in paragraphs (b) and (c) of this section and depicted in table 1 (SO₂) and table 2 (NO_x flow). The owner or operator of a unit shall substitute for missing data using only quality-assured monitor operating hours of data from the three years (26,280 clock hours) prior to the date and time of the missing data period.

TABLE 1—MISSING DATA PROCEDURE FOR SO₂ CEMS

Trigger conditions		Calculation routines	
Availability (percent)	Duration (N) of outage (hours)	Method	Lookback period
95 or more	N ≤ 24	Average	HB/HA.
	N > 24	Max. of average	HB/HA.
90 or more, but below 95	N ≤ 8	Max. of 90th percentile	720 operating hours*.
		Average	HB/HA.
	N > 8	Max. of average	HB/HA.
		Max. of 95th percentile	720 operating hours*.
Below 90	N > 0	Maximum value ¹	720 operating hours*.

HB/HA=hour before and hour after the outage.

*=Quality-assured, monitor operating hours.

¹Where unit with add-on emission controls can demonstrate that the controls are operating properly, as provided in § 75.34, the unit may, upon approval, use the maximum controlled emission rate from the previous 720 operating hours.

TABLE 2—MISSING DATA PROCEDURE FOR NO_x AND FLOW CEMS

Trigger conditions		Calculation routines		
Availability (percent)	Duration (N) of outage (hours)	Method	Lookback period	Load ranges
95 or more	N ≤ 24	Average	2160 operating hours*	Yes.
	N > 24	Max of average	HB/HA	No.
		Max of 90th percentile	2160 operating hours*	Yes.
90 or more, but below 95	N ≤ 8	Average	2160 operating hours*	Yes.
	N > 8	Max of Average	HB/HA	No.
		Max of 95th percentile	2160 operating hours*	Yes.